

IN THE CLAIMS

The claims as presently pending are presented below for sake of convenience:

Claims 1 through 21: Cancelled

22. (Previously presented) A building construction for protection from radiation, said construction comprising at least one building component having a layered sandwich configuration wherein at least one layer of gypsum antiradiation material is poured and compressed between a concrete layer and an opposite layer of concrete or a sheet pile wall installed during construction of the building construction.

23. (Previously presented) The building construction of claim 22, wherein said gypsum antiradiation material comprises water bound thereto.

24. (Previously presented) The building construction of claim 23, wherein said gypsum antiradiation material comprises natural, unfired calcium sulfate dehydrate.

Claims 25-28: Cancelled

29. (Previously presented) The building construction of claim 28, wherein said gypsum antiradiation material comprises granulated gypsum particles poured into a space between said concrete layer and said opposite layer, and wherein said gypsum particles have a particle size of about 40 mm or smaller.

30. Cancelled

31. (Previously presented) The building construction of claim 22, further comprising at least one additive selected from the group of gibbsite, hydragilite, aluminum hydrate, and magnesium added to said gypsum antiradiation material.

32. Cancelled

33. (Previously presented) The building construction of claim 22, wherein said concrete layer comprises a double-wall structure.

34. (Previously presented) The building construction of claim 33, wherein said double-wall structure is filled with poured concrete.

35. (Previously presented) The building construction of claim 34, wherein said poured concrete further comprises an antiradiation additive.

36. (Previously presented) The building construction of claim 22, wherein said opposite layer comprises a concrete layer and each of said concrete layers comprise a double-wall structure, said gypsum antiradiation material disposed between said double-wall structures.

37. (Previously presented) The building construction of claim 36, wherein each of said double-wall structures comprises wall segments connected together with tie rods extending between said wall segments.

38. (Previously presented) The building construction of claim 36, wherein each of said double-wall structures comprises prefabricated concrete panels connected together with lattice girders.

39. (Previously presented) The building construction of claim 38, wherein said lattice girders are formed of a corrosion resistant steel.

40. (Previously presented) The building construction of claim 22, further comprising a layer of antiradiation material beneath said building construction that has sufficient structural integrity for supporting said building construction.